

Gopalakrishnan Kumar

List of Publications by Citations

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337
papers

11,984
citations

61
h-index

87
g-index

356
ext. papers

15,449
ext. citations

7.7
avg, IF

7.27
L-index

#	Paper	IF	Citations
337	A review on lignin structure, pretreatments, fermentation reactions and biorefinery potential. <i>Bioresource Technology</i> , 2019 , 271, 462-472	11	239
336	An overview of food waste management in developing countries: Current status and future perspective. <i>Journal of Environmental Management</i> , 2015 , 157, 220-9	7.9	230
335	Lignocellulose biohydrogen: Practical challenges and recent progress. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 44, 728-737	16.2	211
334	Fermentative hydrogen production from wastewaters: A review and prognosis. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 15632-15642	6.7	211
333	A review on the biosynthesis of metallic nanoparticles (gold and silver) using bio-components of microalgae: Formation mechanism and applications. <i>Enzyme and Microbial Technology</i> , 2016 , 95, 28-44	3.8	178
332	A comprehensive review on green nanomaterials using biological systems: Recent perception and their future applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 170, 20-35	6	175
331	A review of thermochemical conversion of microalgal biomass for biofuels: chemistry and processes. <i>Green Chemistry</i> , 2017 , 19, 44-67	10	170
330	A critical review on issues and overcoming strategies for the enhancement of dark fermentative hydrogen production in continuous systems. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 3820-3836	6.7	147
329	New insights on the green synthesis of metallic nanoparticles using plant and waste biomaterials: current knowledge, their agricultural and environmental applications. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 10164-10183	5.1	145
328	A critical review on anaerobic digestion of microalgae and macroalgae and co-digestion of biomass for enhanced methane generation. <i>Bioresource Technology</i> , 2018 , 262, 319-332	11	143
327	Unraveling the catalyzing behaviors of different iron species (Fe vs. Fe) in activating persulfate-based oxidation process with implications to waste activated sludge dewaterability. <i>Water Research</i> , 2018 , 134, 101-114	12.5	139
326	Influence on the effect of zinc oxide and titanium dioxide nanoparticles as an additive with Calophyllum inophyllum methyl ester in a CI engine. <i>Energy Conversion and Management</i> , 2017 , 146, 8-19	10.6	136
325	Fermentative hydrogen production using lignocellulose biomass: An overview of pre-treatment methods, inhibitor effects and detoxification experiences. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 77, 28-42	16.2	135
324	Anaerobic co-digestion on improving methane production from mixed microalgae (<i>Scenedesmus</i> sp., <i>Chlorella</i> sp.) and food waste: Kinetic modeling and synergistic impact evaluation. <i>Chemical Engineering Journal</i> , 2016 , 299, 332-341	14.7	127
323	Recent insights into the cell immobilization technology applied for dark fermentative hydrogen production. <i>Bioresource Technology</i> , 2016 , 219, 725-737	11	123
322	Anaerobic membrane bioreactors for wastewater treatment: Novel configurations, fouling control and energy considerations. <i>Bioresource Technology</i> , 2019 , 283, 358-372	11	121
321	A critical review of pretreatment technologies to enhance anaerobic digestion and energy recovery. <i>Fuel</i> , 2020 , 270, 117494	7.1	115

320	A comprehensive overview on electro-active biofilms, role of exo-electrogens and their microbial niches in microbial fuel cells (MFCs). <i>Chemosphere</i> , 2017 , 178, 534-547	8.4	107
319	A review on biopolymer production via lignin valorization. <i>Bioresource Technology</i> , 2019 , 290, 121790	11	107
318	Microbial electrolysis cell platform for simultaneous waste biorefinery and clean electrofuels generation: Current situation, challenges and future perspectives. <i>Progress in Energy and Combustion Science</i> , 2017 , 63, 119-145	33.6	101
317	Effects of n-octanol as a fuel blend with biodiesel on diesel engine characteristics. <i>Fuel</i> , 2019 , 235, 363-373	37.3	94
316	Promoted electromethanosynthesis in a two-chamber microbial electrolysis cells (MECs) containing a hybrid biocathode covered with graphite felt (GF). <i>Chemical Engineering Journal</i> , 2016 , 284, 1146-1155	14.7	93
315	Wastewater based microalgal biorefinery for bioenergy production: Progress and challenges. <i>Science of the Total Environment</i> , 2021 , 751, 141599	10.2	93
314	Bio-fabrication of silver nanoparticles using the leaf extract of an ancient herbal medicine, dandelion (<i>Taraxacum officinale</i>), evaluation of their antioxidant, anticancer potential, and antimicrobial activity against phytopathogens. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 10392-10406	5.1	92
313	Enhancement of biofuel production via microbial augmentation: The case of dark fermentative hydrogen. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 57, 879-891	16.2	92
312	Lemon peel oil [A novel renewable alternative energy source for diesel engine. <i>Energy Conversion and Management</i> , 2017 , 139, 110-121	10.6	90
311	Application of nanotechnology in dark fermentation for enhanced biohydrogen production using inorganic nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 13106-13113	6.7	90
310	Anti-diabetic Potential of Silver Nanoparticles Synthesized with <i>Argyrea nervosa</i> Leaf Extract High Synergistic Antibacterial Activity with Standard Antibiotics Against Foodborne Bacteria. <i>Journal of Cluster Science</i> , 2017 , 28, 1709-1727	3	88
309	Microalgae based biorefinery promoting circular bioeconomy-techno economic and life-cycle analysis. <i>Bioresource Technology</i> , 2020 , 302, 122822	11	88
308	A review on bio-electrochemical systems (BESs) for the syngas and value added biochemicals production. <i>Chemosphere</i> , 2017 , 177, 84-92	8.4	87
307	Exploiting antidiabetic activity of silver nanoparticles synthesized using <i>Punica granatum</i> leaves and anticancer potential against human liver cancer cells (HepG2). <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018 , 46, 211-222	6.1	87
306	Seaweeds: A resource for marine bionanotechnology. <i>Enzyme and Microbial Technology</i> , 2016 , 95, 45-57	3.8	86
305	A comprehensive overview on light independent fermentative hydrogen production from wastewater feedstock and possible integrative options. <i>Energy Conversion and Management</i> , 2017 , 141, 390-402	10.6	85
304	Updates on the pretreatment of lignocellulosic feedstocks for bioenergy production—review. <i>Biomass Conversion and Biorefinery</i> , 2018 , 8, 471-483	2.3	84
303	Developments in biochar application for pesticide remediation: Current knowledge and future research directions. <i>Journal of Environmental Management</i> , 2019 , 232, 505-513	7.9	84

302	A compressive review on the effects of alcohols and nanoparticles as an oxygenated enhancer in compression ignition engine. <i>Energy Conversion and Management</i> , 2020 , 203, 112244	10.6	83
301	Carbon dioxide capture and bioenergy production using biological system [A review. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 110, 143-158	16.2	80
300	Synthesis of platinum nanoparticles using seaweed <i>Padina gymnospora</i> and their catalytic activity as PVP/PtNPs nanocomposite towards biological applications. <i>Biomedicine and Pharmacotherapy</i> , 2017 , 92, 479-490	7.5	79
299	Comparative analysis on the effect of zinc oxide and ethanox as additives with biodiesel in CI engine. <i>Energy</i> , 2017 , 140, 352-364	7.9	77
298	Biomass based hydrogen production by dark fermentation-recent trends and opportunities for greener processes. <i>Current Opinion in Biotechnology</i> , 2018 , 50, 136-145	11.4	76
297	An assessment on the effects of 1-pentanol and 1-butanol as additives with <i>Calophyllum Inophyllum</i> biodiesel. <i>Energy Conversion and Management</i> , 2018 , 158, 70-80	10.6	76
296	Hydrogen and methane production via a two-stage processes (H ₂ -SBR+CH ₄ -UASB) using tequila vinasses. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 19249-19255	6.7	74
295	Effect of next generation higher alcohols and <i>Calophyllum inophyllum</i> methyl ester blends in diesel engine. <i>Journal of Cleaner Production</i> , 2018 , 180, 50-63	10.3	73
294	Bio-hythane production from microalgae biomass: Key challenges and potential opportunities for algal bio-refineries. <i>Bioresource Technology</i> , 2017 , 241, 525-536	11	71
293	Surpassing the current limitations of high purity H ₂ production in microbial electrolysis cell (MECs): Strategies for inhibiting growth of methanogens. <i>Bioelectrochemistry</i> , 2018 , 119, 211-219	5.6	71
292	Biogas Production from Organic Waste: Recent Progress and Perspectives. <i>Waste and Biomass Valorization</i> , 2020 , 11, 1019-1040	3.2	71
291	Biobutanol as a promising liquid fuel for the future - recent updates and perspectives. <i>Fuel</i> , 2019 , 253, 637-646	7.1	70
290	Application of nanotechnology (nanoparticles) in dark fermentative hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 1431-1440	6.7	69
289	A comprehensive overview and recent advances on polyhydroxyalkanoates (PHA) production using various organic waste streams. <i>Bioresource Technology</i> , 2021 , 325, 124685	11	68
288	Effect of torrefaction pretreatment on the pyrolysis of rubber wood sawdust analyzed by Py-GC/MS. <i>Bioresource Technology</i> , 2018 , 259, 469-473	11	67
287	Profitable ultrasonic assisted microwave disintegration of sludge biomass: Modelling of biomethanation and energy parameter analysis. <i>Bioresource Technology</i> , 2018 , 254, 203-213	11	67
286	Bioelectrochemical systems using microalgae - A concise research update. <i>Chemosphere</i> , 2017 , 177, 35-48.4		66
285	Comparative assessment of hexanol and decanol as oxygenated additives with <i>calophyllum inophyllum</i> biodiesel. <i>Energy</i> , 2019 , 173, 494-510	7.9	66

284	Anaerobic membrane bioreactors for biohydrogen production: Recent developments, challenges and perspectives. <i>Bioresource Technology</i> , 2018 , 269, 452-464	11	65
283	Microbial electrochemical systems for sustainable biohydrogen production: Surveying the experiences from a start-up viewpoint. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 70, 589-597	16.2	64
282	Techno-economic assessment of various hydrogen production methods - A review. <i>Bioresource Technology</i> , 2021 , 319, 124175	11	64
281	A comprehensive review on thermochemical, biological, biochemical and hybrid conversion methods of bio-derived lignocellulosic molecules into renewable fuels. <i>Fuel</i> , 2019 , 251, 352-367	7.1	63
280	Integrated valorization of waste cooking oil and spent coffee grounds for biodiesel production: Blending with higher alcohols, FTIR, TGA, DSC and NMR characterizations. <i>Fuel</i> , 2019 , 244, 419-430	7.1	63
279	Research perspectives on constraints, prospects and opportunities in biohydrogen production. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 27471-27481	6.7	61
278	Valorization of spent coffee grounds into biofuels and value-added products: Pathway towards integrated bio-refinery. <i>Fuel</i> , 2019 , 254, 115640	7.1	61
277	Evaluation of different pretreatments on organic matter solubilization and hydrogen fermentation of mixed microalgae consortia. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 21628-21640	6.7	61
276	Biodiesel production by valorizing waste Phoenix dactylifera L. Kernel oil in the presence of synthesized heterogeneous metallic oxide catalyst (Mn@MgO-ZrO ₂). <i>Energy Conversion and Management</i> , 2018 , 155, 128-137	10.6	60
275	Study on isobutanol and Calophyllum inophyllum biodiesel as a partial replacement in CI engine applications. <i>Fuel</i> , 2019 , 235, 984-994	7.1	59
274	Wheat straw extracted lignin in silver nanoparticles synthesis: Expanding its prophecy towards antineoplastic potency and hydrogen peroxide sensing ability. <i>International Journal of Biological Macromolecules</i> , 2019 , 128, 391-400	7.9	58
273	A review on the biomass pretreatment and inhibitor removal methods as key-steps towards efficient macroalgae-based biohydrogen production. <i>Bioresource Technology</i> , 2017 , 244, 1341-1348	11	57
272	Anaerobic membrane bioreactor towards biowaste biorefinery and chemical energy harvest: Recent progress, membrane fouling and future perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 115, 109392	16.2	57
271	Waste-to-wealth for valorization of food waste to hydrogen and methane towards creating a sustainable ideal source of bioenergy. <i>Journal of Cleaner Production</i> , 2016 , 122, 29-41	10.3	57
270	Biohydrogen production from rice straw: Effect of combinative pretreatment, modelling assessment and energy balance consideration. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 2203-2215	6.7	57
269	Hydrogen fermentation of different galactose-glucose compositions during various hydraulic retention times (HRTs). <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 20625-20631	6.7	57
268	Biofouling of membranes in microbial electrochemical technologies: Causes, characterization methods and mitigation strategies. <i>Bioresource Technology</i> , 2019 , 279, 327-338	11	56
267	Review on sustainable production of biochar through hydrothermal liquefaction: Physico-chemical properties and applications. <i>Bioresource Technology</i> , 2020 , 310, 123414	11	56

266	An overview on advancements in biobased transesterification methods for biodiesel production: Oil resources, extraction, biocatalysts, and process intensification technologies. <i>Fuel</i> , 2021 , 285, 119117	7.1	56
265	Enhanced biohydrogen production from beverage industrial wastewater using external nitrogen sources and bioaugmentation with facultative anaerobic strains. <i>Journal of Bioscience and Bioengineering</i> , 2015 , 120, 155-60	3.3	55
264	Pretreatment technologies for industrial effluents: Critical review on bioenergy production and environmental concerns. <i>Journal of Environmental Management</i> , 2018 , 218, 165-180	7.9	55
263	Food Waste to Bioenergy via Anaerobic Processes. <i>Energy Procedia</i> , 2014 , 61, 307-312	2.3	55
262	Study on decanol and Calophyllum Inophyllum biodiesel as ternary blends in CI engine. <i>Fuel</i> , 2019 , 239, 862-873	7.1	55
261	Microbiome involved in microbial electrochemical systems (MESs): A review. <i>Chemosphere</i> , 2017 , 177, 176-188	8.4	54
260	Renewable biohydrogen production from lignocellulosic biomass using fermentation and integration of systems with other energy generation technologies. <i>Science of the Total Environment</i> , 2021 , 765, 144429	10.2	54
259	Pretreatment of kenaf (<i>Hibiscus cannabinus</i> L.) biomass feedstock for polyhydroxybutyrate (PHB) production and characterization. <i>Bioresource Technology</i> , 2019 , 282, 75-80	11	54
258	HRT dependent performance and bacterial community population of granular hydrogen-producing mixed cultures fed with galactose. <i>Bioresource Technology</i> , 2016 , 206, 188-194	11	52
257	Biohydrogen production from industrial wastewater: An overview. <i>Bioresource Technology Reports</i> , 2019 , 7, 100287	4.1	52
256	A review on the conversion of volatile fatty acids to polyhydroxyalkanoates using dark fermentative effluents from hydrogen production. <i>Bioresource Technology</i> , 2019 , 287, 121427	11	50
255	Bioconversion of de-oiled <i>Jatropha</i> Waste (DJW) to hydrogen and methane gas by anaerobic fermentation: Influence of substrate concentration, temperature and pH. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 63-72	6.7	50
254	Microbial electrohydrogenesis linked to dark fermentation as integrated application for enhanced biohydrogen production: A review on process characteristics, experiences and lessons. <i>Bioresource Technology</i> , 2018 , 251, 381-389	11	49
253	Pretreatment and hydrolysis methods for recovery of fermentable sugars from de-oiled <i>Jatropha</i> waste. <i>Bioresource Technology</i> , 2013 , 145, 275-9	11	49
252	Changes in performance and bacterial communities in response to various process disturbances in a high-rate biohydrogen reactor fed with galactose. <i>Bioresource Technology</i> , 2015 , 188, 109-16	11	48
251	A brief review of anaerobic membrane bioreactors emphasizing recent advancements, fouling issues and future perspectives. <i>Journal of Environmental Management</i> , 2020 , 270, 110909	7.9	48
250	Effect of hydraulic retention time (HRT) on biohydrogen production from galactose in an up-flow anaerobic sludge blanket reactor. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 21670-21677	6.7	48
249	Biohydrogen purification using a commercial polyimide membrane module: Studying the effects of some process variables. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 15092-15099	6.7	48

248	Novel insights into scalability of biosurfactant combined microwave disintegration of sludge at alkali pH for achieving profitable bioenergy recovery and net profit. <i>Bioresource Technology</i> , 2018 , 267, 281-290	11	47
247	Exploiting fruit byproducts for eco-friendly nanosynthesis: Citrus clementina peel extract mediated fabrication of silver nanoparticles with high efficacy against microbial pathogens and rat glial tumor C6 cells. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 10250-10263	5.1	45
246	A novel study on the effect lemon peel oil as a fuel in CRDI engine at various injection strategies. <i>Energy Conversion and Management</i> , 2018 , 172, 517-528	10.6	45
245	Architectural engineering of bioelectrochemical systems from the perspective of polymeric membrane separators: A comprehensive update on recent progress and future prospects. <i>Journal of Membrane Science</i> , 2018 , 564, 508-522	9.6	44
244	Effects of 5-hydroxymethylfurfural, levulinic acid and formic acid, pretreatment byproducts of biomass, on fermentative H ₂ production from glucose and galactose. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 16885-16890	6.7	44
243	Pt Nanoparticles Supported on Mesoporous CeO ₂ Nanostructures Obtained through Green Approach for Efficient Catalytic Performance toward Ethanol Electro-oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 11290-11299	8.3	43
242	Impact of pH control and heat pre-treatment of seed inoculum in dark H ₂ fermentation: A feasibility report using mixed microalgae biomass as feedstock. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 4382-4392	6.7	42
241	Investigation of novel Pistacia khinjuk biodiesel in DI diesel engine with post combustion capture system. <i>Applied Thermal Engineering</i> , 2019 , 159, 113969	5.8	42
240	Exploitation of de-oiled jatropha waste for gold nanoparticles synthesis: A green approach. <i>Arabian Journal of Chemistry</i> , 2018 , 11, 247-255	5.9	42
239	Biorefinery of spent coffee grounds waste: Viable pathway towards circular bioeconomy. <i>Bioresource Technology</i> , 2020 , 302, 122821	11	41
238	A review on chemical mechanism of microalgae flocculation polymers. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2019 , 21, e00302	5.3	41
237	Lignocellulosic biomass based biorefinery: A successful platform towards circular bioeconomy. <i>Fuel</i> , 2021 , 302, 121086	7.1	41
236	Fuels properties, characterizations and engine and emission performance analyses of ternary waste cooking oil biodiesel/diesel/propanol blends. <i>Sustainable Energy Technologies and Assessments</i> , 2019 , 35, 321-334	4.7	40
235	Impervious and influence in the liquid fuel production from municipal plastic waste through thermo-chemical biomass conversion technologies - A review. <i>Science of the Total Environment</i> , 2020 , 718, 137287	10.2	40
234	Effect of feeding mode and dilution on the performance and microbial community population in anaerobic digestion of food waste. <i>Bioresource Technology</i> , 2018 , 248, 134-140	11	40
233	Biohythane production from food processing wastes - Challenges and perspectives. <i>Bioresource Technology</i> , 2020 , 298, 122449	11	40
232	Valorization of spent coffee grounds recycling as a potential alternative fuel resource in Turkey: An experimental study. <i>Journal of the Air and Waste Management Association</i> , 2018 , 68, 196-214	2.4	38
231	Improved microbial conversion of de-oiled Jatropha waste into biohydrogen via inoculum pretreatment: process optimization by experimental design approach. <i>Biofuel Research Journal</i> , 209-214	13.9	38

230	A comprehensive review on two-stage integrative schemes for the valorization of dark fermentative effluents. <i>Critical Reviews in Biotechnology</i> , 2018 , 38, 868-882	9.4	37
229	Cultivation of microalgal biomass using swine manure for biohydrogen production: Impact of dilution ratio and pretreatment. <i>Bioresource Technology</i> , 2018 , 260, 16-22	11	37
228	Food waste valorization: Biofuels and value added product recovery. <i>Bioresource Technology Reports</i> , 2020 , 11, 100524	4.1	37
227	Synergetic pretreatment of algal biomass through H ₂ O ₂ induced microwave in acidic condition for biohydrogen production. <i>Fuel</i> , 2019 , 253, 833-839	7.1	36
226	Trends and resource recovery in biological wastewater treatment system. <i>Bioresource Technology Reports</i> , 2019 , 7, 100235	4.1	36
225	Recovery of biohydrogen in a single-chamber microbial electrohydrogenesis cell using liquid fraction of pressed municipal solid waste (LPW) as substrate. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 17896-17906	6.7	36
224	Performance evaluation of microbial electrochemical systems operated with Nafion and supported ionic liquid membranes. <i>Chemosphere</i> , 2017 , 175, 350-355	8.4	35
223	Energetically efficient microwave disintegration of waste activated sludge for biofuel production by zeolite: Quantification of energy and biodegradability modelling. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 2274-2288	6.7	35
222	A cost-effective strategy for the bio-prospecting of mixed microalgae with high carbohydrate content: diversity fluctuations in different growth media. <i>Bioresource Technology</i> , 2014 , 163, 370-3	11	35
221	Fermentative hydrogen production from mixed and pure microalgae biomass: Key challenges and possible opportunities. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 26440-26453	6.7	35
220	Mesophilic biogenic H ₂ production using galactose in a fixed bed reactor. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 3658-3666	6.7	35
219	Catalytic hydrothermal liquefaction of biomass into bio-oils and other value-added products: A review. <i>Fuel</i> , 2021 , 285, 119053	7.1	35
218	Controlled synthesis of Pt nanoparticle supported TiO ₂ nanorods as efficient and stable electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23435-23444	12	35
217	Biohydrogen production integrated with an external dynamic membrane: A novel approach. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 27543-27549	6.7	34
216	Effects of various dilute acid pretreatments on the biochemical hydrogen production potential of marine macroalgal biomass. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 27600-27606	6.7	34
215	Simultaneous removal of 5-hydroxy methyl furfural (5-HMF) and hydrogen production from acid (H ₂ SO ₄) pretreated red-algal hydrolysate via hybrid immobilized cells. <i>Algal Research</i> , 2015 , 11, 326-333 ⁵		34
214	Surfactant assisted disperser pretreatment on the liquefaction of <i>Ulva reticulata</i> and evaluation of biodegradability for energy efficient biofuel production through nonlinear regression modelling. <i>Bioresource Technology</i> , 2018 , 255, 116-122	11	34
213	Impact of pretreatment on food waste for biohydrogen production: A review. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 18211-18225	6.7	34

212	A hybrid constructed wetland for organic-material and nutrient removal from sewage: Process performance and multi-kinetic models. <i>Journal of Environmental Management</i> , 2018 , 222, 378-384	7.9	34
211	Feasibility of enriched mixed cultures obtained by repeated batch transfer in continuous hydrogen fermentation. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 4393-4403	6.7	33
210	Upgrading of micro algal derived bio-fuels in thermochemical liquefaction path and its perspectives: A review. <i>International Biodeterioration and Biodegradation</i> , 2017 , 119, 260-272	4.8	33
209	Industrial wastewater to biohydrogen: Possibilities towards successful biorefinery route. <i>Bioresource Technology</i> , 2020 , 298, 122378	11	33
208	Engine performance, emission and bio characteristics of rice bran oil derived biodiesel blends. <i>Fuel</i> , 2019 , 239, 153-161	7.1	33
207	An investigation on CRDi engine characteristic using renewable orange-peel oil. <i>Energy Conversion and Management</i> , 2019 , 180, 1026-1038	10.6	33
206	Effects of concentration and gas flow rate on the removal of gas-phase toluene and xylene mixture in a compost biofilter. <i>Bioresource Technology</i> , 2018 , 248, 28-35	11	33
205	Mesophilic continuous fermentative hydrogen production from acid pretreated de-oiled jatropha waste hydrolysate using immobilized microorganisms. <i>Bioresource Technology</i> , 2017 , 240, 137-143	11	32
204	Hydrogen and ethanol fermentation of various carbon sources by immobilized <i>Escherichia coli</i> (XL1-Blue). <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 6881-6888	6.7	32
203	Combined pretreatment of electrolysis and ultra-sonication towards enhancing solubilization and methane production from mixed microalgae biomass. <i>Bioresource Technology</i> , 2017 , 245, 196-200	11	32
202	Development of a Novel Hybrid Immobilization Material (HY-IM) for Fermentative Biohydrogen Production from Beverage Wastewater. <i>Journal of the Chinese Chemical Society</i> , 2014 , 61, 827-830	1.5	32
201	Disperser-induced bacterial disintegration of partially digested anaerobic sludge for efficient biomethane recovery. <i>Chemical Engineering Journal</i> , 2018 , 347, 165-172	14.7	31
200	Electronic waste generation, recycling and resource recovery: Technological perspectives and trends. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125664	12.8	31
199	Process performance of biohydrogen production using glucose at various HRTs and assessment of microbial dynamics variation via q-PCR. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 27550-27557	6.7	30
198	Optimizing biohydrogen production from mushroom cultivation waste using anaerobic mixed cultures. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 16473-16478	6.7	30
197	Screening and optimization of pretreatments in the preparation of sugarcane bagasse feedstock for biohydrogen production and process optimization. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 11470-11483	6.7	29
196	Seed inocula for biohydrogen production from biodiesel solid residues. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 15489-15495	6.7	29
195	High rate hydrogen fermentation of cello-lignin fraction in de-oiled jatropha waste using hybrid immobilized cell system. <i>Fuel</i> , 2016 , 182, 131-140	7.1	29

194	Enhancement of hydrogen production by optimization of pH adjustment and separation conditions following dilute acid pretreatment of lignocellulosic biomass. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 27502-27511	6.7	28
193	Nanoparticle induced biological disintegration: A new phase separated pretreatment strategy on microalgal biomass for profitable biomethane recovery. <i>Bioresource Technology</i> , 2019 , 289, 121624	11	28
192	Current trends and prospects in microalgae-based bioenergy production. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104025	6.8	28
191	Enzymatically-boosted ionic liquid gas separation membranes using carbonic anhydrase of biomass origin. <i>Chemical Engineering Journal</i> , 2016 , 303, 621-626	14.7	28
190	Biomethane recovery from <i>Egeria densa</i> in a microbial electrolysis cell-assisted anaerobic system: Performance and stability assessment. <i>Chemosphere</i> , 2016 , 149, 121-9	8.4	28
189	Exploitation of anaerobic enriched mixed bacteria (AEMB) for the silver and gold nanoparticles synthesis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 462, 264-270	5.1	28
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187	A review on valorization of spent coffee grounds (SCG) towards biopolymers and biocatalysts production. <i>Bioresource Technology</i> , 2020 , 314, 123800	11	27
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